

## Abstract

Techniques for bonding aligned optical parts to a substrate are disclosed. According to one embodiment, one or more wedges are used to fill in gaps between aligned optical parts and a substrate. Using an appropriate material, the wedges are respectively slid in till respective contacts between the aligned optical parts and the wedges are established, a small amount of a bonding agent is then only applied to the respect contacts. As a result, the shrinkage that may be caused by the bonding agent to destabilize the aligned optical parts is minimized and the alignments among the optical parts are preserved and can sustain under very high environmental stresses.